<110> ImmuneMed Inc.
KIM, Yoon-Won
KIM, Young-Jin
CHOI, Yo-Han
AHN, Jee-Yin
WOO, Soo-Dong
SIN, Song-Woo
CHO, Min-Kee
BYUN, Young-Hwan
KANG, Jeung-Yul

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<151> 2002-02-01

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Val His Ser Glu Ile Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys
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Thr Gly Tyr Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu
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gag tgg att gga aat att gat cct tac tat ggt agt act acc tac aat          240
Glu Trp Ile Gly Asn Ile Asp Pro Tyr Tyr Gly Ser Thr Thr Tyr Asn
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cag aag ttc aag ggc aag gcc aca ttg act gta gac aaa tct tcc agc          288
Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
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aca gcc tac atg cag ctc aac agc ctg aca tct gag gac tct gca gtc          336
Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
            100                 105                 110

tat tac tgt gca aga gag act ggg acg agg gct atg gac tac tgg ggt          384
Tyr Tyr Cys Ala Arg Glu Thr Gly Thr Arg Ala Met Asp Tyr Trp Gly
        115                 120                 125

caa gga acc tca gtc acc gtc tcc tca gct aca aca aca gcc cca tct          432
Gln Gly Thr Ser Val Thr Val Ser Ser Ala Thr Thr Thr Ala Pro Ser
    130                 135                 140

gtc tat ccc ttg gtc cct ggc tgc agt gac aca tct gga tcc tcg gtg          480
Val Tyr Pro Leu Val Pro Gly Cys Ser Asp Thr Ser Gly Ser Ser Val
145                 150                 155                 160

aca ctg gga tgc ctt gtc aaa ggc tac ttc cct gag ccg gta act gta          528
Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val
                165                 170                 175

aaa tgg aac tat gga gcc ctg tcc agc ggt gtg cgc aca gtc tca tct          576
Lys Trp Asn Tyr Gly Ala Leu Ser Ser Gly Val Arg Thr Val Ser Ser
            180                 185                 190
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gtc ctg cag tct ggg ttc tat tcc ctc agc agc ttg gtg act gta ccc      624
Val Leu Gln Ser Gly Phe Tyr Ser Leu Ser Ser Leu Val Thr Val Pro
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tcc agc acc tgg ccc agc cag act gtc atc tgc aac gta gcc cac cca      672
Ser Ser Thr Trp Pro Ser Gln Thr Val Ile Cys Asn Val Ala His Pro
    210                 215                 220

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225                 230                 235                 240

ccc agt acc ccc cca ggt tct tca tgc cca cct ggt aac atc ttg ggt      768
Pro Ser Thr Pro Pro Gly Ser Ser Cys Pro Pro Gly Asn Ile Leu Gly
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gga cca tcc gtc ttc atc ttc ccc cca aag ccc aag gat gca ctc atg      816
Gly Pro Ser Val Phe Ile Phe Pro Pro Lys Pro Lys Asp Ala Leu Met
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        275                 280                 285

gat gac cca gat gtc cat gtc agc tgg ttt gtg gac aac aaa gaa gta      912
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Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Arg Gly
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Tyr Thr Ile Pro Pro Pro Arg Glu Gln Met Ser Lys Lys Lys Val Ser
    370                 375                 380

ctg acc tgc ctg gtc acc aac ttc ttc tct gaa gcc atc agt gtg gag        1200
Leu Thr Cys Leu Val Thr Asn Phe Phe Ser Glu Ala Ile Ser Val Glu
385                 390                 395                 400

tgg gaa agg aac gga gaa ctg gag cag gat tac aag aac act cca ccc        1248
Trp Glu Arg Asn Gly Glu Leu Glu Gln Asp Tyr Lys Asn Thr Pro Pro
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atc ctg gac tca gat ggg acc tac ttc ctc tac agc aag ctc act gtg        1296
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Asp Thr Asp Ser Trp Leu Gln Gly Glu Ile Phe Thr Cys Ser Val Val
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cat gag gct ctc cat aac cac cac aca cag aag aac ctg tct cgc tcc        1392
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Thr Gly Tyr Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu
    50                  55                  60

Glu Trp Ile Gly Asn Ile Asp Pro Tyr Tyr Gly Ser Thr Thr Tyr Asn
65                  70                  75                  80

Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser
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Thr Ala Tyr Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val
            100                 105                 110

Tyr Tyr Cys Ala Arg Glu Thr Gly Thr Arg Ala Met Asp Tyr Trp Gly
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Gln Gly Thr Ser Val Thr Val Ser Ser Ala Thr Thr Thr Ala Pro Ser
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Val Tyr Pro Leu Val Pro Gly Cys Ser Asp Thr Ser Gly Ser Ser Val
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Thr Leu Gly Cys Leu Val Lys Gly Tyr Phe Pro Glu Pro Val Thr Val
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Lys Trp Asn Tyr Gly Ala Leu Ser Ser Gly Val Arg Thr Val Ser Ser
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Val Leu Gln Ser Gly Phe Tyr Ser Leu Ser Ser Leu Val Thr Val Pro
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Ile Ser Leu Thr Pro Lys Val Thr Cys Val Val Val Asp Val Ser Glu
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Asp Asp Pro Asp Val His Val Ser Trp Phe Val Asp Asn Lys Glu Val
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His Thr Ala Trp Thr Gln Pro Arg Glu Ala Gln Tyr Asn Ser Thr Phe
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Arg Val Val Ser Ala Leu Pro Ile Gln His Gln Asp Trp Met Arg Gly
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Lys Glu Phe Lys Cys Lys Val Asn Asn Lys Ala Leu Pro Ala Pro Ile
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Glu Arg Thr Ile Ser Lys Pro Lys Gly Arg Ala Gln Thr Pro Gln Val
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Tyr Thr Ile Pro Pro Pro Arg Glu Gln Met Ser Lys Lys Lys Val Ser
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Leu Thr Cys Leu Val Thr Asn Phe Phe Ser Glu Ala Ile Ser Val Glu
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Ile Leu Asp Ser Asp Gly Thr Tyr Phe Leu Tyr Ser Lys Leu Thr Val
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gca tct gtg gga gaa act gtc acc atg aca tgt cga gca agt gag aat 144
Ala Ser Val Gly Glu Thr Val Thr Met Thr Cys Arg Ala Ser Glu Asn
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att tac agt aat tta gca tgg tat cag cag aaa cag gga aaa tct cct 192
Ile Tyr Ser Asn Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
50 55 60

cag ctc ctg gtc tat gtt gca aca aac tta gca gat ggt gtg cca tca 240
Gln Leu Leu Val Tyr Val Ala Thr Asn Leu Ala Asp Gly Val Pro Ser

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                85                  90                  95

agc ctg cag cct gaa gat ttt ggg agt tat tac tgt caa cat ttt tat        336
Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Tyr
            100                 105                 110

ggt tct cct cgg acg ttc ggt gga ggc acc aag ctg gaa atc aaa cgg        384
Gly Ser Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
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gct gat gct gca cca act gta tcc atc ttc cca cca tcc agt gag cag        432
Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln
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tta aca tct gga ggt gcc tca gtc gtg tgc ttc ttg aac aac ttc tac        480
Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr
145                 150                 155                 160

ccc aga gac atc aat gtc aag tgg aag att gat ggc agt gaa cga caa        528
Pro Arg Asp Ile Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln
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aat ggt gtc ctg aac agt tgg act gat cag gac agc aaa gac agc acc        576
Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr
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tac agc atg agc agc acc ctc aca ttg acc aag gac gag tat gaa cga        624
Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg
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cat aac aac tat acc tgt gag gcc act cac aag aca tca act tca ccc        672
His Asn Asn Tyr Thr Cys Glu Ala Thr His Lys Thr Ser Thr Ser Pro
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35 40 45

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50 55 60

Gln Leu Leu Val Tyr Val Ala Thr Asn Leu Ala Asp Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn
85 90 95

Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Tyr
100 105 110

Gly Ser Pro Arg Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg
115 120 125

Ala Asp Ala Ala Pro Thr Val Ser Ile Phe Pro Pro Ser Ser Glu Gln
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Leu Thr Ser Gly Gly Ala Ser Val Val Cys Phe Leu Asn Asn Phe Tyr
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Pro Arg Asp Ile Asn Val Lys Trp Lys Ile Asp Gly Ser Glu Arg Gln

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Asn Gly Val Leu Asn Ser Trp Thr Asp Gln Asp Ser Lys Asp Ser Thr
180 185 190

Tyr Ser Met Ser Ser Thr Leu Thr Leu Thr Lys Asp Glu Tyr Glu Arg
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